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ANNUAL REPORT

OF THE AMERICAN GEOGRAPHICAL SOCIETY OF NEW YORK, FOR THE YEAR 1874.

American Geographical Society, Cooper Institute, New York, February 25, 1875.

Hon. WILLIAM DORSHEIMER,

President of the Senate of the State of New York:

SIR — In conformity with the provisions of the act incorporating this Society, I have the honor to transmit herewith the Annual Report of the American Geographical Society, for the year 1874.

Very respectfully yours,

ALVAN S. SOUTHWORTH,

Recording Secretary.

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Hutchings, Robert C., Hunter, Edward, Hutton, Lawrence, Huntington, C. P., Hunter, Charles F., Hunter, John W., Hunter, James, Huntington, Daniel, Hurlbut, H. A. (L. F.), Hutton, Benjamin H., Hyde, Samuel T., Ingalls, Rufus, Ingersoll, Charles D., Inman, Wm. H., Ireland, John B., Isaacs, Isaac S., Iselin, William E., Iselin, Adrian, Jr., Ives, Dotius D., Ives, Frederick E., Jacob, Ephraim A., Jackson, H. A., Jackson, Chas. Carroll, Jackson, James F., Jackson, Fred'k W., Jacquelin, John H., Jaffray, Edward S., Jaffray, Robert, James, Fred'k P., James, D. Willis, Jameson, Joseph A., Janssen, Gerhard, Jarvis, Nathaniel, Jr., Jarvis, Robert M., Jay, John (L. F.), Jenkins, Wm. L., Jenkins, Thos. W., Jesup, M. K., Jewett, George W., Joachimsen, Joseph P., Johnson, Henry W., Johnson, Henry J., Johnson, Hezron A.,

Johnson, Bradish, Johnson, William M., Johnston, John T., Johnston, James B., Johnston, Melville M., Jones, John D., (L. F.) King, George, Jones, Walter R. T., Jones, Charles C., Jr., Jones, Edward A., Jones, John Q., Jones, Lewis C., Jones, George, Jordan, Conrad N., Jordan, Edward, Jova, John J., Joy, Charles A., Judah, Samuel B. F., Judd, Hophni, Judson, William D., Kalbfleisch, Chas. H., Kane, J. Grenville, Kato, George P., Kauffman, Samuel, Kauffman, Sigismund, Krackowizer, E., Kayser, Julius, Kearny, Edward, Kearny, Joseph R., Keck, Thomas, Keese, Samuel T., Kelly, J. D. J., Kelly, Eugene, Kemble, Gouv. N., Kemp, John H., Kemp, William, Kendrick, H. L., Kennan, George, Kennedy, Robert L., Kennedy, Harvey, Kent, Elmore A., Ketcham, Enoch, Ketchum, Franklin M., Lapsey, Samuel W., Ketcham, Wm. P., Keteltas, Eugene, Kibbe, Henry R.,

Kidder, William F., Kidder, Henry P., Kiddoo, J. B., Kimball, Charles H., King, Oliver K., King, Lewis, King, Edward, (2.) King, David, King, Edward, (1.) Kingsland, A. C., Kingsland. Wm. M., Kirkland, Charles P., Kip, Lawrence, Kitchen, William K., Kitching, Robert N., Kitchen, James, Kerchies, Alex. F., Klamroth, Albert, Koch, Joseph, Knapp, Gideon L., Knoedler, Julius, Knower, John, Kunhardt, Henry R., Kühne, Frederick, Lacey, Richard, Landman, Max., Landon, Charles G., Lane, George W., Langdon, Woodbury, Lanier, J. F. D., Lanier, Charles, Lambert, Henry A., Lambert, E. W., Lamson, Charles, Langer, Morris, Larremore, Rich'd L.,

Latting, John J., Lauterbach, Edward, Lawrence, J. S., (L. F.) Lawrence, A. R., Lawrence, Joseph B., Lawrence, E. H., Lawrence, Alex. C., Lawrence, Samuel B., Lawton, Walter E., Lea, Joseph, Leaman, Walter K., Leary, Arthur, Leavenworth, E. W.. LeComte, Joseph, Lederle, Joseph, Lee, Ambrose, Lefferts, Marshall, Leggat, Andrew R., Leggett, Francis W., Lehmair, M. H., LeMoyne, E.M., Lenox, James, Lent, DeWitt C., Leonard, William H., Lesher, Stephen R., Leslie, Frank, Letson, Robert S., Levine, Joseph. Leuthner, Frederick, Lane, Smith E., (L. F.) Levino, Alexander M., Lewis, Walter H., Langdon, W., (L. F.) Libbey, William, (L. F.) Lincoln, James D., Littlejohn, DeWitt C., Littel, Eugene, Littlejohn, James, Livermore, Edwin R., Livingston, Robert E., Lamson, Leonidas M., Livingston, John A., Livingston, C., (L. F.) Livingston, R. J., (L.F) Lockwood, B., Lathers, Rich'd (L. F.) Lockwood, Joseph B., Lathrop, F. L., (L. F.) Loew, Frederick W.,

Lord, George W. T., Lord, G. De Forest, Longstreet, Chas. A., Lorillard, Peter, Lorillard, George L., Low, A. A., Ludlow, E. Livingston, McClure, George, Lydig, David, Lyell, John H., Maas, Abraham F. Mackay, John M., Mackie, Robert, Mackeller, William, Maclay, William B., Maclay, Isaac W., Maclay, Robert, Macy, William H., Macy, Sylvanus J., Macmillan, Frederick, Mailler, W. H., Maltby, Elsworth B., Mallory, Charles H., Mali, De Wevman, Man, Albon P., Manners, David S., Mansell, Abraham, Marble, Manton, Marbury, Francis F., Marie, Peter, (L. F.) Marks, Joseph H., Marquand, Henry G., Marsh, Luther R., Marshall, D. D. T., Marshall, Charles H., Marston, Charles E., Martin, John M., Marti, Carlos, Martin, William R., Martine, Randolph B., Martin, Isaac P., Matsell, George W., Matthews, E., (L. F.) Maury, Mytton,

May, Lewis, Mayhew, Francis L. B., Morel, E. B., Mayo, William S., Maynard, George W., McAlpine, William J., McAlpin, David H., McCreery, James A., McCurdy, R. H., McElligott, Henry R., McKenney, Gerald, McLean, James M., McMahon, M. T., McMullen, John, Meade, E. R., Meeker, H. G., Menken, J. Stanwood, Menzies, William, Merrall, William J., Merriam, Aug. C., Merrick, John S., Meyer, F. William, Miles, Edward D., Miller, Philip S., Miller, Charles H., Miller, Charles R., Miller, Edmund H., Miller, George M., Miller, Morris S., Mitander, Nils, Mitchell, Cornelius B., Nassau, C. W., Mitchell, Grove P., Mitchill, Samuel A., Moir, James, Moller, Peter, Monroe, Ebenezer, Montgomery, Thos. H., Newberry, John S., Montgomery, A. G. Jr., Newcombe, Isaac B., Moore, Geo. H., (L. F.) Newell, Clarence D., Moore, Frank, (L. F.) Newell, John, Moore, W. H. H., (L.F.) Niblo, William, Moore, C. B., Moore, Henderson,

Moreau, John B., Morgan, Charles L., Morgan, W. F., Morgan, J. Pierpont, Morgan, Edwin D., Morgan, William D., Morrell, W. H., (L. F.) Morris, Harry M., Lyman, Edward H. R., McDermott, James W., Morris, Gouverneur, Jr. Morris, Moreau, Morris, Henry L., Merris, Robert R., Morrison, Henry, Morrison, Edward, Morton, Levi P., Mott, Alexander B., Moulton, Gilman S., Moulton, Clarence F., Mount, R. E., (L. F.) Murdock, U. A., Murphy, Henry C., Murphy, J. Mortimer, Murphy, Thomas, Murray, D. Colden, Murray, Nicholas, Myers, T. Bailey, Myers, John K., Myers, John K., Jr., Myers, Alfred J., Myer, A. J., Neergaard, William, Negus, T. S., Nehrbas, Charles J., Neilson, William H., Neilson, Frederic, Nichols, Effingham H., Niles, Lucien H.,

Niles, William W., Nones, Alexander, Norrie, Adams, (L. F.) Parton, James, Norris, George, Norton, Eckstein, Nourse, J. C., Nourse, Alfred P., Norwood, Carlisle, Jr., Pastor, Henry, Norwood, Andrew G., Oakley, E. Benedict, O'Callaghan, E. B., O'Conor, Charles, Offenberg, Baron, Ogden, William B., Ogden, Alfred, Ogden, Gabriel V. N., O'Hara, Charles E., Olney, Peter B., Olyphant, Robert M., Onativia, Jose V., Oppenheimer, Joseph, O'Reilly, Henry, Orton, William, Osgood, James W., Osgood, William H., Osgood, Franklin, Ostrander, P. W., Ottendorfer, Oswald, Owen, Edward H., Owen, Edward L., Owen, Frederick N., Packer, Elisha A., Palmer, Courtlandt, Jr. Plum, Elias, Palmer, F. A., Palmer, Ebenezer, Palmer, Francis H., Pancoast, George, Pardee, Ario, Paret, Henry, Paris, Sherman, Parish, Henry, Parker, Willard,

Parsons, George W., Parsons, Charles C, Paterson, Robert W., Paton, William, Paton, William A., Paton, John, Paulding, Gouverneur, Prince, Henry, Paulding, James P., Paulison, John P., Pavy, Octave, Peabody, Charles A., Peabody, Arthur J., Peake, William I., Peckham, Walton H., Peek, William T., Peir**c**e, C. H., Pell, Robert L., Pellew, Henry E., Perault, George, Perry, Oliver H., Pfeiffer, Carl, Phelps, Royal, (L. F.) Phelps, Charles H., Phelps, J. N., Phillips, George W., Ottenheimer, Solomon, Phoenix, S. W., (L. F.) Raynolds, C. T., Pierrepont, J. Jay, Pierrepont, Edwards, Platt, James N., Pondir, John, Poor, Henry V., (L. F.) Reid, Whitelaw, Palmer, James W., Jr., Popham, William H., Porter, David D., Porter, John K., Porter, Nathan T., Potter, Howard, Potter, Clarkson N., Potter, Orlando B., Powers, William P.,

Powers, George J., Pratt, Daniel R., Preble, John Q., Prichard, William M., Prime, William C., Prime, Fred'k, (L. F.) Prime, Fred. E., (L. F.) Prime, Temple, Probasco, Samuel R, Pruyn, John V. L., Punnett, James, (L. F.) Purdue, Joseph, Purser, George H., Putney, William B., Putzel, Mayer, Pyne, Percy R., Quintard, Edward A., Radde, L. E. G., Radde, William, Penfold, William Hall, Ralli, Constantine P., Ramsey, Charles G., Randall, C. K., Randolph, A. D. F., Ransom, F. A., Rapallo, Charles A., Rathbone, Aaron H., Raven, Anton A., Reckendorfer, J., (L. F.) Redfield, Amasa A., Pierrepont, H. E., (L.F.) Redding, George H., Reed, Mrs. Sylvanus, Reeve, Henry G., Regensburger, M. H., Reinhart, B. F., Remington. Samuel, Remsen, William, Renauld, Peter A. H., Requa, James M., Reynes, Jayme, Rhinelander, Wm. C., Rhoades, John H.,

Rhoades, Lyman, Ribon, J. J., Rice, William B., Richard, Charles B., Richards, August. D., Richard, Auguste, Richardson, Wm. A., Rich, John B., Richmond, Henry A., Riker, William J., Riley, Charles V., Rives, Francis R., Robbins, Henry A., Robbins, C., (L. F.) Robbins, George S., Robeson, George M., Roberts, Marshall O., Roberts, E. H., Robertson, D. A., Robinson, Douglass, Robinson, Eugene N., Robinson, H. W., Robinson, Edm. R., Roelker, Bernard, Rogers, Marvin N., Rogers, H. Livingston, Rogers, William E., Rogers, David L., Rogers, C. B., (L. F.) Rollins, Daniel G., Jr., Rollins, Edward A., Roosevelt, Theodore, Roosevelt, Robert B., Rose, Cornelius, Ross, Ar hur, Rowan, L. H., Rowland, William F., Riker, John H., Ruggles, Samuel B., Ruggles, Philo T., Runkle, Cornelius W., Scribner, John B., Russell, John A., Russell, Nathan, Jr., Russell, Archibald D.,

Rutherford, L. M., Rutherford, John A., Ruthven, J. A., Rutton, August, Sachs, Henry M., Salomon, Edward, Salmon, E. J., Salter, Thomas P., Sands, Andrew H., Sands, Philip J., Sands, Harry M., Sanders, Lewis, Sanford, Samuel B., Sanger, A. L., Sauer, Emil, Savage, John, Sawyer, Warren, Saxter, Samuel W., Scammon, E. P., Schafer, Samuel M., Schafer, Simon, Schaus, William, Schell, Rich'd, (L. F.) Schell, August., (L. F.) Slevin, Edward P., Schenck, Noah H., Schermerhorn, W. C., Schermerhorn, J. W., Schermerhorn, F. A., Shieffelin, S. B., Schieffelin, S. A., Schlesinger, B., Schmidt, Oscar E., Schnitzer, Jacob, Schnerr, Constant, Schrenkeisen, Martin, Shultz, John H., (L. F) Southworth, M. M., Scott, Julian, Scott, Henry L., Scott, Thomas A., Scudder, Henry J., Sears, Herman B., Seligman, James,

Seligman, Jesse, Seligman, Joseph, Seward, Clarence A., Sewall, Henry F., Sewall, Robert, Shaler, Alexander, Sharpe, George H., Shaw, J. T., Shea, George, Sheafe, J. F., Sherman, W. Watts, Sherman, William P., Sherman, Benjamin B. Sherwood, John, Shethar. Samuel, Siegman, Michael, Sigel, Franz, Simons, S. A., Simpkins, N. S., Jr., Simpson, James H., Sistare, George K., Skidmore, Jeremiah, Slevin, James M., Slevin, Thomas E., Sloan, Samuel, Smales, Holbert, Smith, E. Delafield, Smith, James O., Smith, C. Bainbridge, Smith, James M., Jr., Smith, Daniel D., Smythe, Frederick, Soper, William M., Southworth, Henry C. Schuchardt, Frederick, Southworth, Alvan S., Spencer, Charles S., Spencer, James C., Spingarn, Siegmund, Spinney, Joseph S., Spofford, Paul N., Squires, Robert, Stallknecht, F. S.,

Stanton, Charles, Stanton, Walter, Stebbins, Henry G., Steele, Oliver R., Steiger, E., Steinway, William, Steinwehr, A. von, Stengel, Frederick, Stephens, Edward, Stern, Myer, Stern, Simon H., Sterne, Simon, Stephens, Alex. H., Stevens, Simon, Steward, D. Jackson, Stewart, Charles J., Stewart, A. T., Stewart, Thomas E., Stiger, William E., Stillwell, Benjamin M., Tellkampf, T. A., Stokes, James, Stockwell, A. B., Stone, Henry, Storrs, Richard S., Jr., Thompson, Joseph P., Storrs, Charles, (L. F.) Thompson, James, Stoughton, Charles R., Thorburn, W. H. S., Stoughton, Edwin W., Thorne, Jonathan, Stout, John, Stout, F. A., (L. F.) Straznicky, E. R., Strebeigh, Robert M., Striker, J. A., Strong, W. L., Strong, Charles E., Stuart, W. W., Stuart, Robert L., Stuart, Alexander, Stuart, Joseph, Sturges, Frederick, Sturges, Thomas T., Jr., Tracy, William, Sturgis, Frank K., Sturgis, Appleton, Stuyvesant, R., (L. F.) Tremain, Edwin R., Stuyvesant, Robert R., Trevor, John B.,

Stuyvesant, Robert, Suckley, Geo., (L. F.) Sutherland, Josiah, Swan, Otis D., Swan, William H., Swarr, David M., Tailor, William H., Taintor, Joseph L., Taintor, Giles E., Talmadge, Henry P., Tapscott, James J., Taylor, Douglass, Taylor, George, Taylor, Bayard, Taylor, Alexander, Jr., Taylor, Francis F., Taylor, Alfred J., Tefft, Erastus T., Telford, George A., Terry, Edward, Therasson, L. F., Thompson, D. G. (L.F.) Vail, Henry F., Thorne, William H., Tideman, Nicholas, Tieman, P. C., Tiffany, Charles L., Tilden, Samuel J., Tillman, S. D., Tooley, James W., Tomes, Francis, Tousey, Sinclair, Tower, Z. B., Townsend, Martin J., Townsend, R. W., Tracy, Charles, Tracy, John F.,

Trow, John F., Tuckerman, Walter C., Tuckerman, Lucius, Tufts, Edwin O., Turner, Herbert B., Turney, P. W., Tyler, Arthur W., Ullo, Lorenzo, Van Alen, James J., Van Alen, J. H., Van Amringe, J. H., Van Brunt, Charles H., Van Cott, Joshua M., Van Cott, Cornelius, Van Dusen, Samuel B., Van Rensselaer, Alex., Van Rensselaer, K., Van Santvoord, C., Van Valkenburgh, P., Van Vorst, Hooper C., Vanderbilt, W. H., Vanderpoel, Aaron J., Vermilye, William M., Viele, Egbert L., Vincent, Frank, Jr., Voorhis, William, Vyse, Thomas A., Jr., Wadsworth, Julius, Wadsworth, E. Clifford, Waite, M. R., Waite, Charles C., Wales, Salem H., Walker, Wm. Augustus, Walker, William, Wallack, J. Lester, Wallis, George B., Wall, Theodore M., Walter, Elwood, Walraven, Ira E., Ward, Geo. C., (L. F.) Ward, Elijah, Warren, James K., Warren, Geo. Henry,

Watson, William, Watson, B. F., Watson, John H., Watts, Ridley, (L. F.) Webb, Alexander S., Webb, William H., Weber, Leonard, Weber, Albert, Webster, Sidney, Weeks, John A., Wells, Jacob, Wendell, Jacob, Wesendonk, Hugo, Westermann, B., Weston, Theodore, Wetmore, G. P., (L. F.) Willets, Samuel, Wetmore, W. B., (L. F.) Williams, John S., Wetmore, George C., Weyman, Charles S., Wheeler, DeWitt C., Wheeler, Everett P., Wheelwright, B. F.,

White, George E., White, H. C., White, John H., White, Alexander M., Whitlock, William, Jr., Wood, Benj, Jr., Whittier, John G., Whitewright, W., Jr., Wiener, Jos., (L. F.) Willson, Louis M., Wilcox, Orlando B., Wilde, Samuel, Jr., Wiley, Franklin, Wilkeson, Samuel, Wilson, J. G., (L. F.) Willard, Seymour, Wetmore, Sam'l, (L. F.) Wilder, Marshall P., Williams, George G., Williams, B., Williams, S. C., (L. F.) Zachos, J. C.,

Winston, Frederick S., Witthaus, R. A., (L. F.) Witthaus, G. H., (L. F.) Wood, Benjamin, Wood, Fernando, Wood, James H. C., Worcester, S. F., Wolfe, Christopher, Worthen, William E., Worth, James L., Wooster, George H., Wreaks, Charles F., Wright, E. Kellogg, Wright, William W., Wyckoff, Jacob F., Yamada, Yokichi, Young, Mason, Youngs, Alfred, Youngs, Henry I., Williamson, David B., Zborowski, Martin,

PART I.

TRANSACTIONS OF THE SOCIETY

FOR THE YEAR 1874.

PART II.

PAPERS READ BEFORE THE SOCIETY.

(Note.—The authors are alone responsible for the contents of their respective papers.)